

VIRTUAL UTILITY SYSTEM

1/1

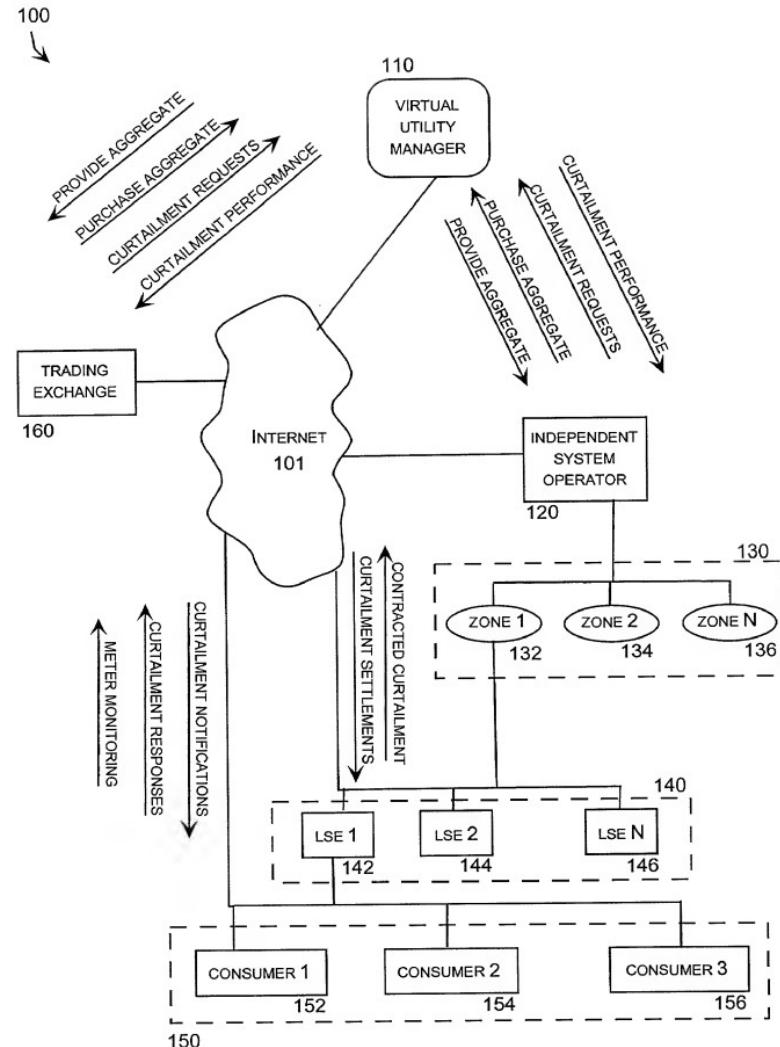


FIG. 1

09554852 . 091801

TRY60° 2584560

200 DISPATCH SYSTEM

2/2

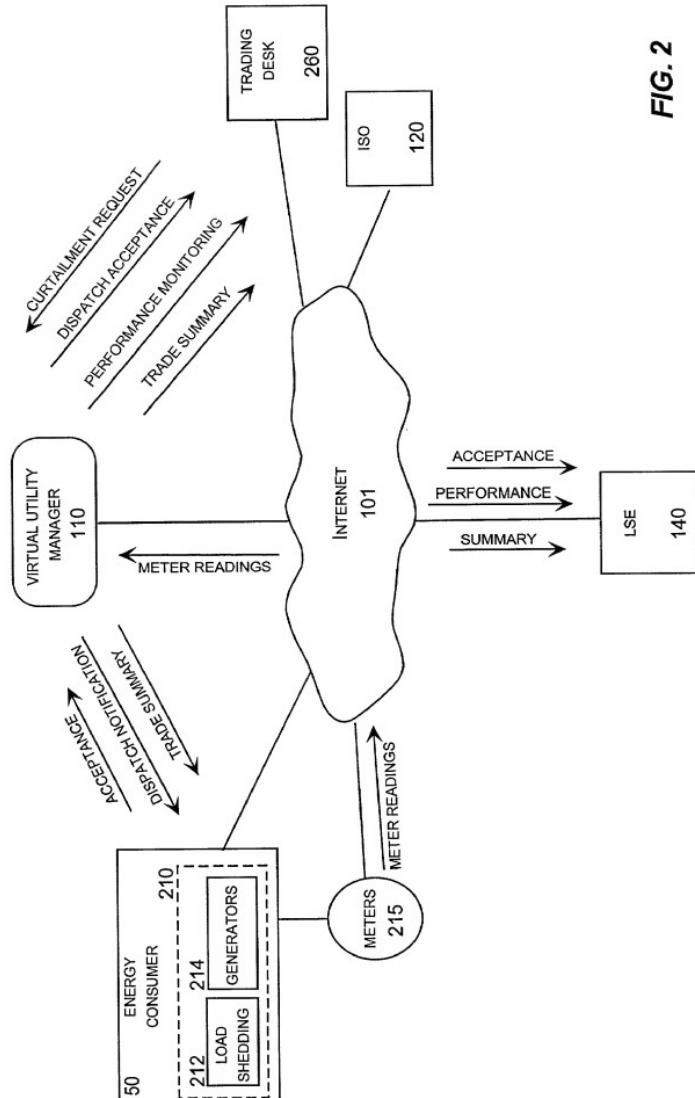
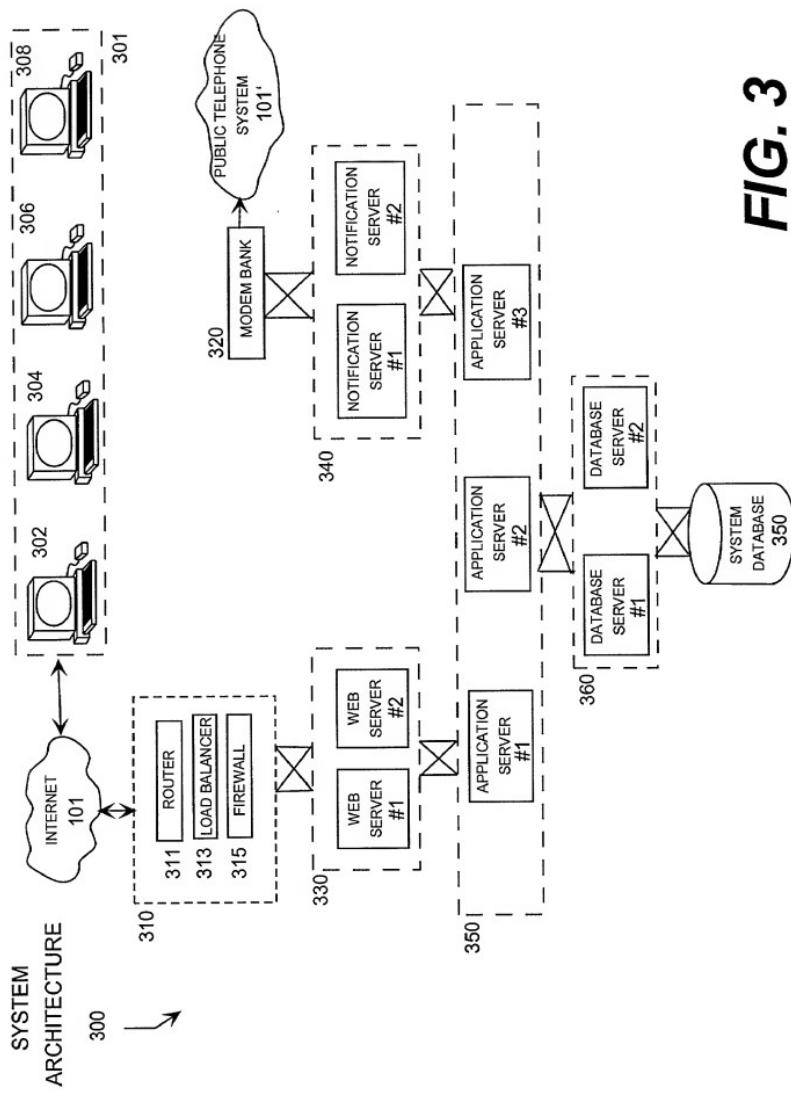


FIG. 2

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VUM SOFTWARE ARCHITECTURE

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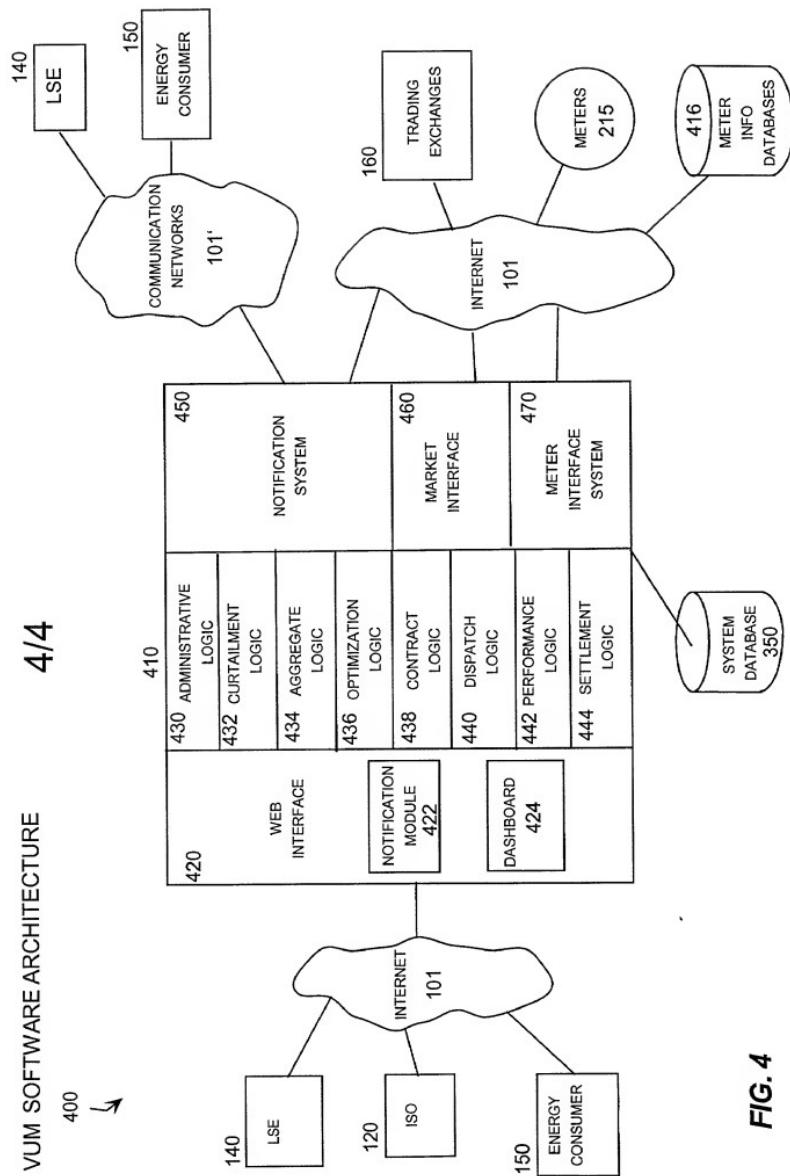


FIG. 4

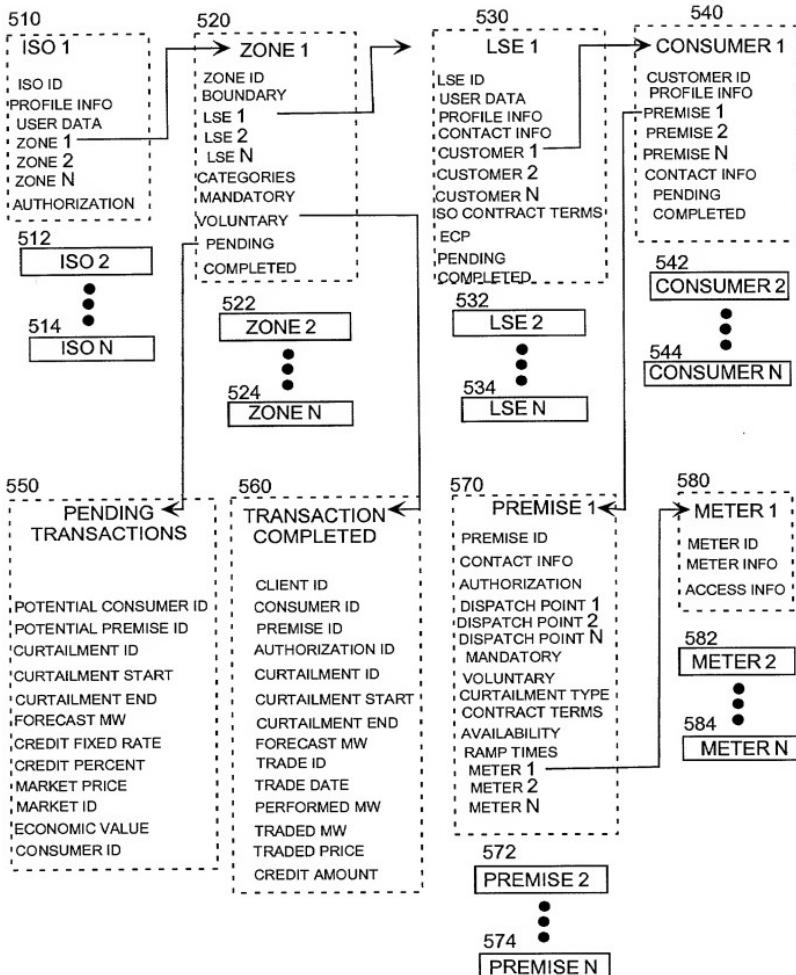


FIG. 5

BASIC MESSAGE FORMATS

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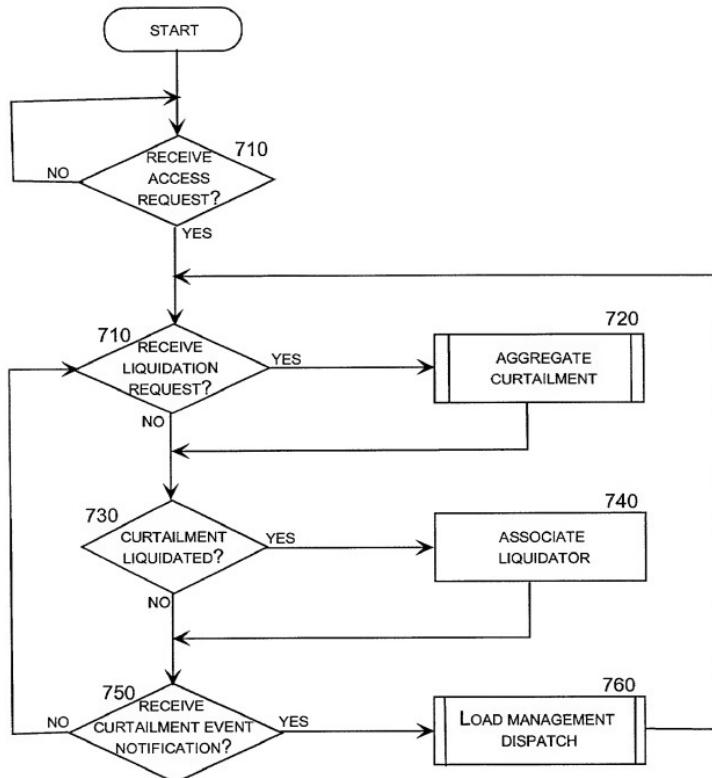
ISO/IEC 8481-3:2001(E)

ISO/VUM NOTIFICATION REQUEST LSE ID USER NAME PASSWORD LSE ID PREMISE ID CURTAILMENT ID CURTAILMENT PERIOD START CURTAILMENT PERIOD END ECP	VUM/ISO CURTAILMENT AVAILABILITY ZONE ID PREMISE ID MANDATORY VOLUNTARY ECP LEAD NOTIFICATION LOAD SHEDDING DIESEL GENERATION AVAILABILITY PERFORMANCE HISTORY
LSE/VUM AUTHORIZATION LSE ID CONSUMER ID PREMISE ID USER NAME USER PASSWORD CURTAILMENT ID AUTHORIZATION CODE	VUM/LSE TRANSACTION SUMMARY LSE ID CURTAILMENT ID CONSUMER ID ACTUAL CURTAILMENT MW PERFORMED SETTLEMENT
VUM/CONSUMER NOTIFICATION REQUEST LSE ID PREMISE ID CURTAILMENT ID CURTAILMENT PERIOD START CURTAILMENT PERIOD END RESPONSE TIME ECP ESTIMATED REMITTANCE	CONSUMER/VUM AUTHORIZATION LSE ID CONSUMER ID PREMISE ID CONSUMER USER NAME CONSUMER USER PASSWORD CURTAILMENT ID AUTHORIZATION CODE
METER/VUM METER READINGS METER ID DATE USAGE 1 TIME 1 USAGE 2 TIME 2 USAGE N TIME N	VUM/METER METER REQUEST DATA BASE USER ID DATABASE PASSWORD METER ID METER DESTINATION DATE TIME FRAME

FIG. 6

VUM MAIN PROCESS

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700
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102450-25845660

FIG. 7

AGGREGATE CURTAILMENT
ROUTINE

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720
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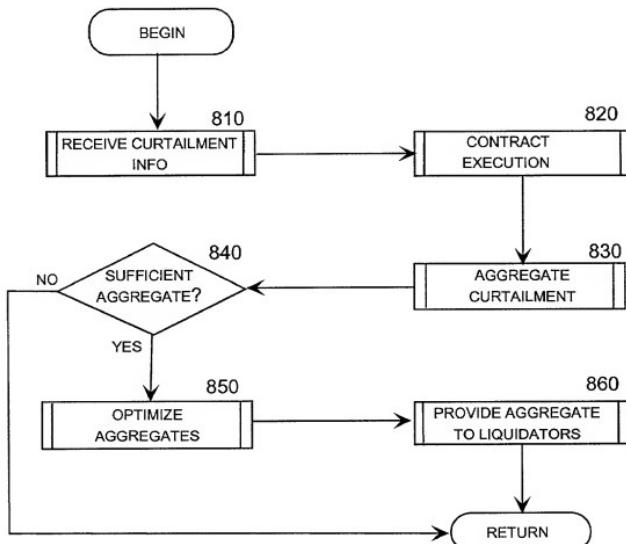
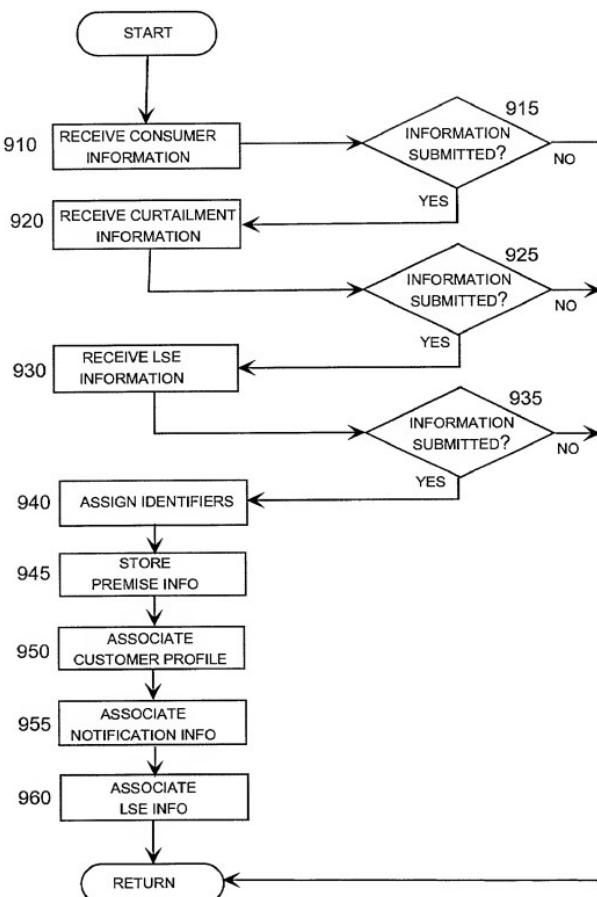


FIG. 8

CURTALMENENT INFORMATION
ROUTINE

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810



108160-2584560

FIG. 9

CONTRACT EXECUTION
ROUTINE

10/20

820

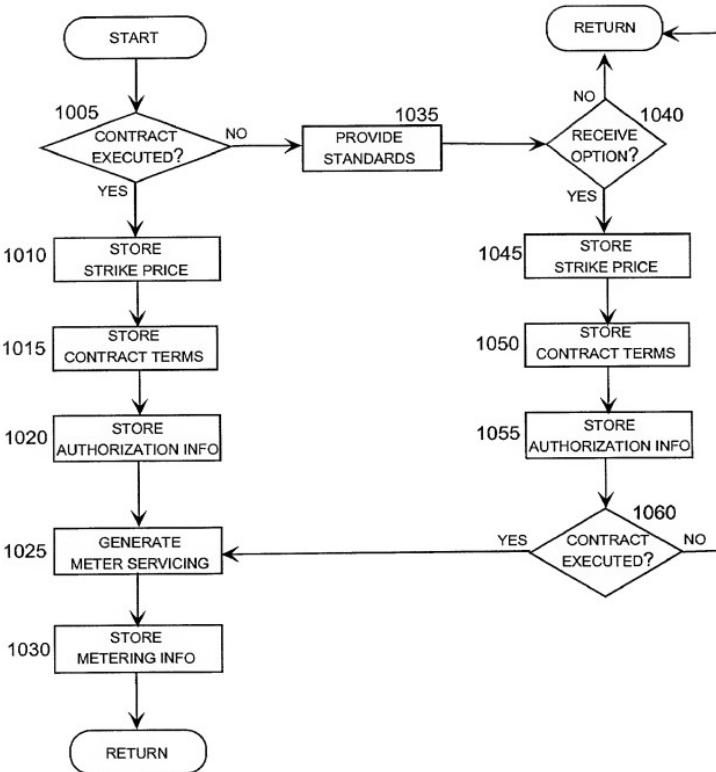


FIG. 10

09854560 * 091600 * 25845660

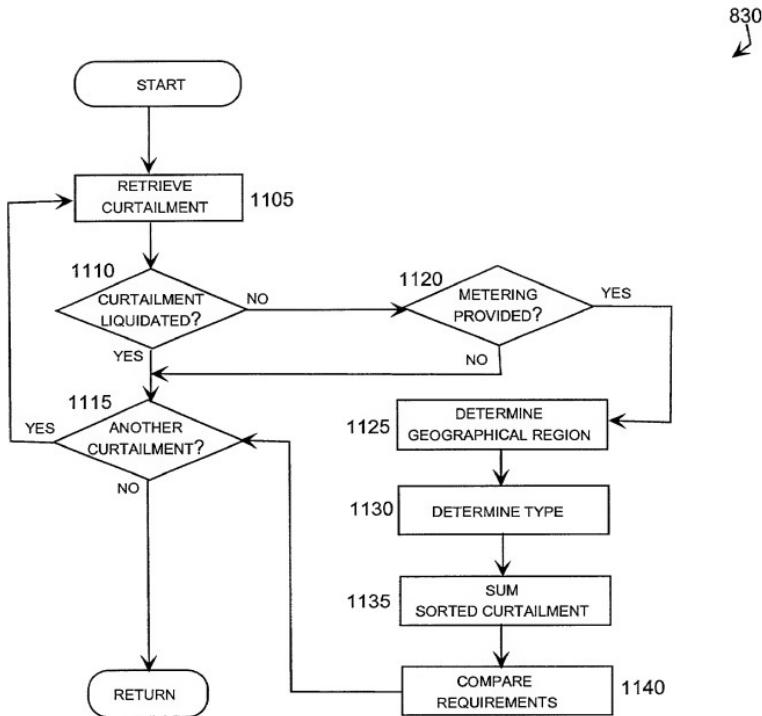
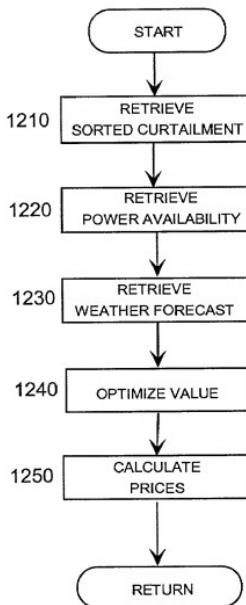


FIG. 11

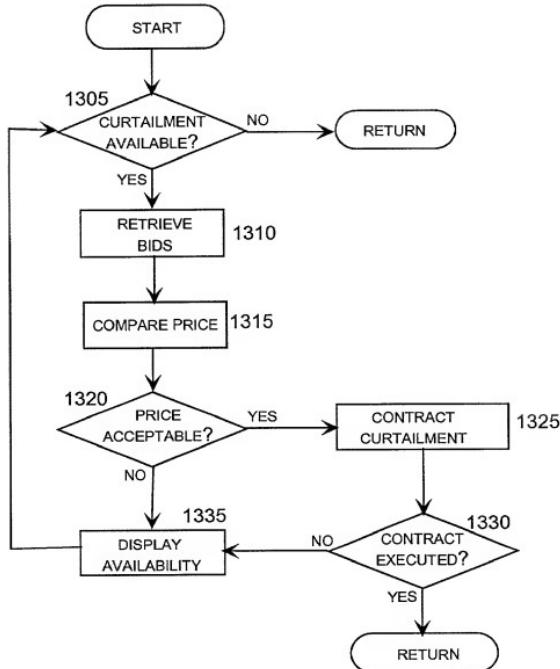
103160-2584560

850
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AGGREGATE LIQUIDATION
ROUTINE

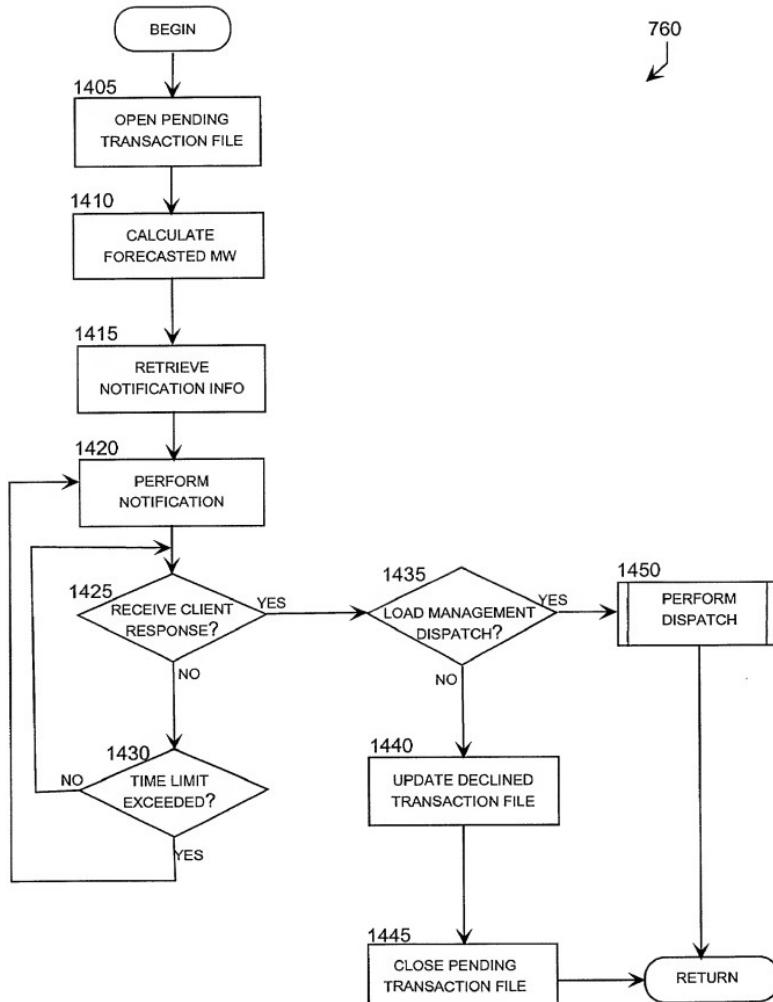
13/20

860

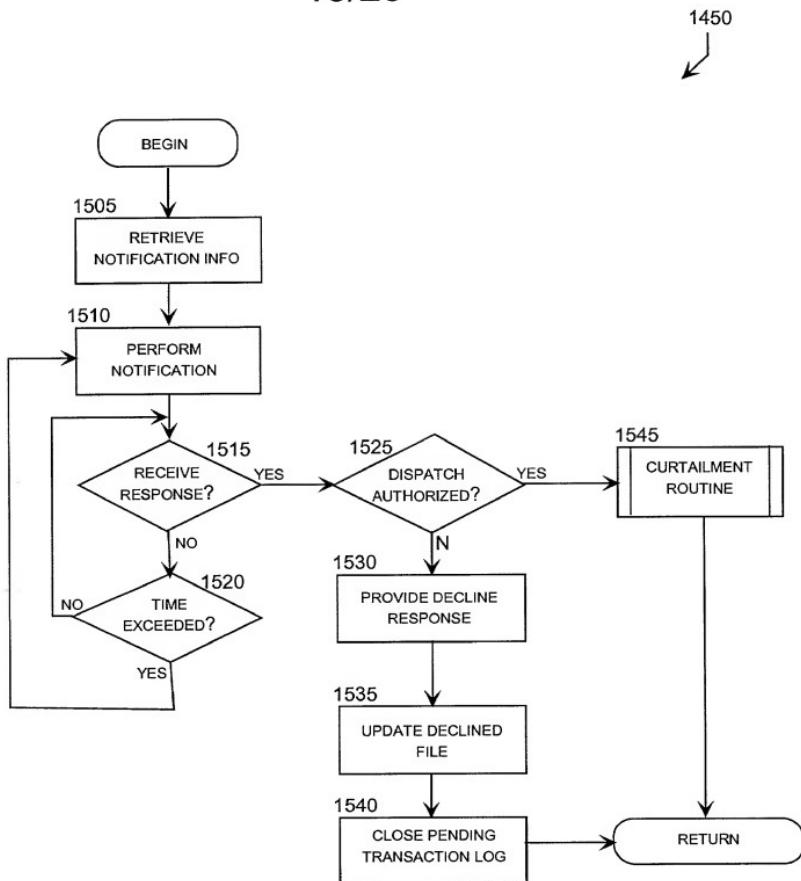


108460-2584560

FIG. 13

**FIG. 14**

TOP SECRET//SI//REL TO USA, UK, FVEY



TO8T60-25845660

FIG. 15

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CURTAILMENT ROUTINE

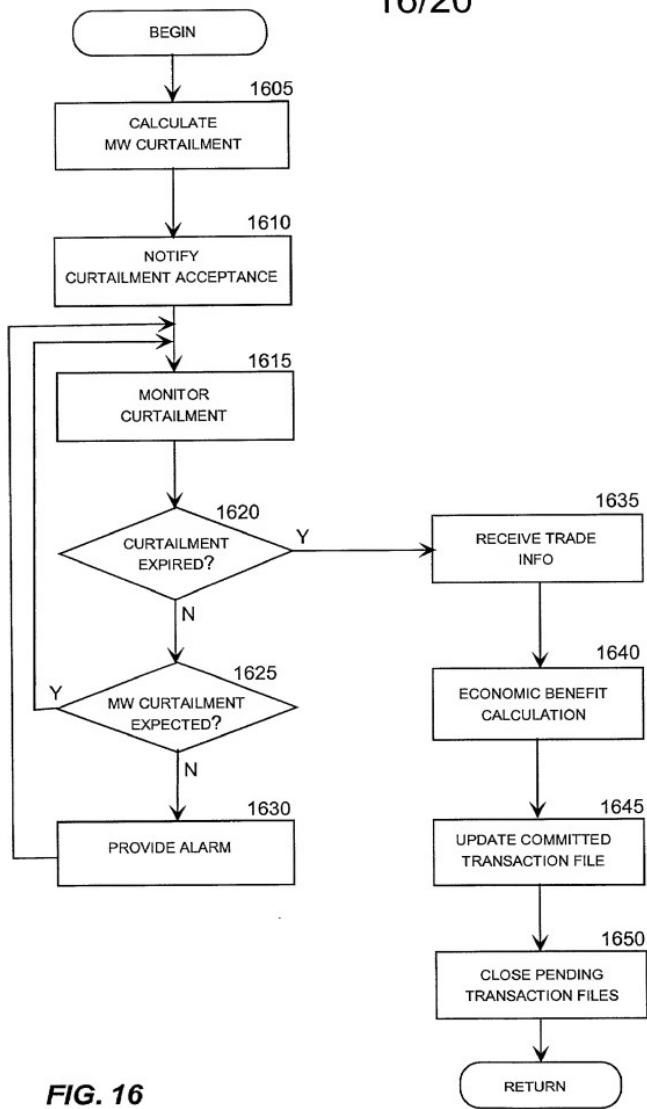


FIG. 16

Y08T50-253n560

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1700

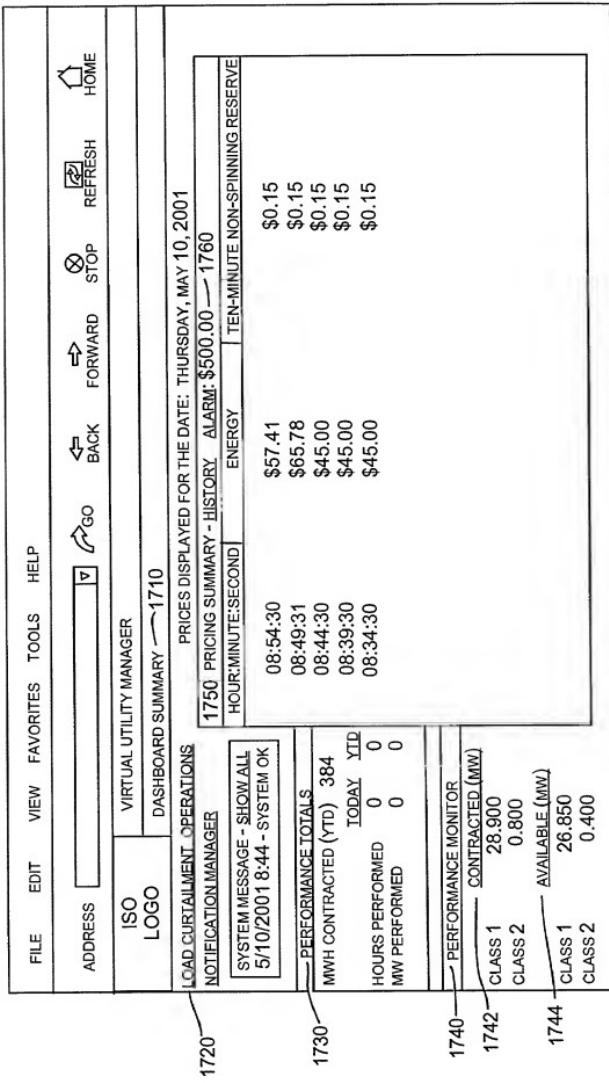


FIG. 17

TOBJ60*25345650

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1800
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FILE	EDIT	VIEW	FAVORITES	TOOLS	HELP
ADDRESS	Go BACK FORWARD STOP REFRESH HOME				
LOGO	VIRTUAL UTILITY MANAGER ————— 1810				
NOTIFICATION TYPE					
1860 CLASS 1 - CURTAILMENT CURTAILMENT DATE 5/25/01					
CLASS 1 - CURTAILMENT START TIME 12:40					
ESTIMATED END TIME 23:00					
CUSTOM MESSAGE					
SUBMIT 1865					
NOTIFICATION TYPE					
1820 CLASS 1 - CURTAILMENT					
1822 PROGRAM					
1830 CLASS 1 MANDATORY NEMA/BOSTON					
1832					
FACILITIES					
1840 FIRST CO / MAIN (0.10) SECOND INC/MILL (0.75) THIRD INC/ SERVICE (22.00) FOURTH CO/ MAIN (2.00) FOURTH CO/ REMOTE (2.00) FIFTH INC (0.30)					
1850 TOTAL MW 27.15					

FIG. 18

108T50° 25845560

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1900



FILE	EDIT	VIEW	FAVORITES	TOOLS	HELP		
ADDRESS	<input type="text"/>	<input type="button" value="Go"/>	<input type="button" value="BACK"/>	<input type="button" value="FORWARD"/>	<input type="button" value="STOP"/>	<input type="button" value="REFRESH"/>	<input type="button" value="HOME"/>
LOGO	VIRTUAL UTILITY MANAGER — 1910						
NOTIFICATION TYPE	CLASS 2 - VOLUNTARY						
CLASS 2 FORECAST \$10 ECP	<input type="checkbox"/>	1922	CURTAILMENT DATE	<input type="text" value="5/25/01"/>	1950	START TIME	<input type="text" value="12:48"/>
PROGRAM	<input type="checkbox"/>	1930	ESTIMATED END TIME	<input type="text" value="23:00"/>	1932	RESPOND TIME	<input type="text" value="12:45"/>
CLASS 2 VOLUNTARY NEMA/BOSTON	<input type="checkbox"/>	1940	CUSTOM MESSAGE	<input type="text"/>			
FACILITIES	<input type="checkbox"/> 1955						
A CO / MAIN (0..10) B INC/ MILL (0..20) C1 INC/ MAIN (0..10) C2 INC/ MAIN (0..10) D CORP / MAIN (0..10) E INC (0..20)	TOTAL MW	<input type="text" value="0.8"/>	1942				

TO8T60 "25845660

2000
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FILE	EDIT	VIEW	FAVORITES	TOOLS	HELP	
ADDRESS	Go					HOME
LOGO	VIRTUAL UTILITY MANAGER					REFRESH
NOTIFICATION MANAGER → 2010		CURTAILMENT EVENT #202 - CLASS 1 MANDATORY - 05/25/01				
NOTIFICATION TYPE		NEW END TIME 16:00				
CLASS 1 - RESTORATION □		CUSTOM MESSAGE				
PROGRAM		SUBMIT 2055				
CLASS 1 RESTORATION NEMA/BOSTON □						
FACILITIES						
FIRST CO / MAIN (0.10) SECOND INC MILL (0.75) THIRD INC SERVICE (22.00) FOURTH CO/ MAIN (2.00) FOURTH CO/ REMOTE (2.00) FIFTH INC (0.30)		TOTAL MW 27.15 2045				

2020

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